

Sprint Retrospective Document

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Project acronym: ROBOCON-OCU

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Sprint 8 summary

| Item ID | WP ID | Status | Group's Comments |
|---------|-------|-------------|--|
| 1 | 8 | Complete | |
| 2 | 9 | In progress | The serial communication part is implemented. |
| 3 | 8 | Not started | |
| 4 | 8 | Not started | |
| 5 | 7 | Not started | |
| 6 | 9 | Complete | Initial version of the customizable GUI is completed. |
| 7 | 6 | In progress | The supervisor program is implemented. However, there is some inconsistency between architectures. |
| 8 | 10 | In progress | A client for MiniRHex is implemented. In following sprint, this client will be embedded to on-board system. |
| 9 | 7 | In progress | The design of the API is changed. The developer will be able to implement the communication protocols in on-board system. We also provide an example for this. |
| 10 | 5 | In progress | We started using gstreamer instead of VLC and our streaming delayed has reduced significantly, very little work has left. |
| 11 | 9 | In progress | This task is about to finish, very little work has left here. |

Sprint 9 plan

| Item ID | WP ID | Description | Status |
|---------|-------|--|------------------------|
| 1 | 9 | Design the low-level software architecture for the microcontroller which would handle the hardware components | Leftover from Sprint 8 |
| 2 | 8 | Design the initial PCB(printed circuit board) for the operator system | Leftover from Sprint 8 |
| 3 | 8 | Come up with the initial mechanical design for the operator system | Leftover from Sprint 8 |
| 4 | 7 | Implement the designed multi-threaded on-board program to connect various parts of the on-board system | Leftover from Sprint 8 |
| 5 | 6 | Implement a supervisor program for the MiniRHex robot that handles commands and status updates between OCU and the robot | Leftover from Sprint 8 |
| 6 | 10 | Create an initial demo of the OCU with MiniRHex robot without operator system hardware | Leftover from Sprint 8 |
| 7 | 7 | Implement the designed initial API for the robot platform to be able to use OCU | Leftover from Sprint 8 |
| 8 | 5 | Decrease latency of video stream to lower than 200 ms | Leftover from Sprint 8 |
| 9 | 9 | Implement the designed multi-threaded operator program to connect various parts of the operator system | Leftover from Sprint 8 |
| 10 | 3 | Port the software we wrote to the Yocto build | New |
| 11 | 10 | Overall system integration and scenario tests | New |

